Journal of Mathematical Psychology

Volume 22, 1980

EDITOR:
A. A. J. Marley
McGill University, Canada

BOARD OF EDITORS:

William H. Batchelder
University of California, Irvine
Clyde H. Coombs
University of Michigan
William K. Estes
Harvard University
Jean-Claude Falmagne
New York University
Peter C. Fishburn
Bell Laboratories
James G. Greeno
University of Pittsburgh
Eric Holman
University of California, Los Angeles
Lawrence Hubert
University of California, Santa Barbara
Tarow Indow
University of California, Irvine
R. Duncan Luce
Harvard University
M. Frank Norman
University of Pennsylvania
Edward N. Pugh, Jr.
University of Pennsylvania
Patrick Suppes
Stanford University
Amos Tversky
Stanford University
Dirk Vorberg
Universität Konstanz, Germany
Kenneth Wexler
University of California, Irvine

ACADEMIC PRESS
A Subsidiary of Harcourt Brace Jovanovich, Publishers
New York. London Toronto Sydney San Francisco

Copyright © 1980 by Academic Press, Inc.

All Rights Reserved

No part of this publication may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopy, recording, or any information storage and retrieval system, without permission in writing from the copyright owner.

The appearance of the code at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use, or for the personal or internal use of specific clients. This consent is given on the condition, however, that the copier pay the stated per copy fee through the Copyright Clearance Center, Inc. (21 Congress Street, Salem, Massachusetts 01970), for copying beyond that permitted by Sections 107 or 108 of the U.S. Copyright Law. This consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale. Copy fees for pre-1980 articles are the same as those shown for current articles.

Printed by the St. Catherine Press, Ltd., Bruges, Belgium

CONTENTS OF VOLUME 22

Number 1, August 1980

CHAEL A. COHEN. Random Utility Systems—The Infinite Case. 1

C TÉROUANNE. On a Class of "Impossible" Figures: A New Language for a New Analysis. 24

IN I. YELLOTT, JR. Generalized Thurstone Models for Ranking: Equivalence and Reversibility. 48

I SONG WONG. Matrix Derivatives and Its Applications in Statistics. 70

Number 2, October 1980

ADIMIR A. LEFEBVRE. An Algebraic Model of Ethical Cognition. 83

DUNCAN LUCE, JOHN C. BAIRD, DAVID M. GREEN, AND ALBERT F. SMITH. Two Classes of Models for Magnitude Estimation. 121

NNOUNCEMENTS. 149

Number 3, December 1980

IDEON SCHWARZ AND AMOS TVERSKY. On the Reciprocity of Proximity Relations. 157

LL H. LARKIN AND THOMAS D. WICKENS. Population States and Eigenstructure: A Simplifying View of Markov Learning Models. 176

OBERT J. TITIEV. A Locus Problem Involving the Three-Dimensional City-Block Metric. 209

HARLES E. METZ AND HELEN B. KRONMAN. Statistical Significance Tests for Binormal ROC Curves. 218

RRATUM

Volume 21, Number 1, February 1980: B. J. T. Morgan and C. Robertson, "Short-Term Memory Models for Choice Behavior," pp. 30–52. . . . 244

UTHOR INDEX FOR VOLUME 22. 245